

SCECAP 1999 -- Open Water
Sediment characteristics, contaminants, and toxicity

Station	Characteristics			Contaminants				Toxicity			
	Percent Silt/Clay	TOC % of Total	TAN (mg/l)	ERMQ	Metals*	PAHs*	Pest.*	PCBs*	Microtox® Assay EC ₅₀ Percent	Seed Clam Assay Mean Toxic	Mean Growth
					1						Toxic
RO99301	7.7	0.2	1.3	0.007					0.9		*
RO99302	96.8	6.6		0.037	1				0.3		NA
RO99303	10.9	0.2	1.7	0.006					0.7		31.2
RO99304	12.4	0.4	2.3	0.004					0.7		20.1
RO99305	3.6	0.1	3.6	0.003					1.3		20.9
RO99306	2.6	0.1	5.8	0.005					15.9	2.8	†
RO99307	2.3	0.1	0.6	0.004					0.5	†	*
RO99308	93.2	0.2	1.3	0.011					0.3		39.9
RO99309	11.7	0.3	1.8	0.009					0.4	†	32.3
RO99310	9.3	0.1	1.3	0.006					1.9		30.7
RO99311	0.9	0.0		0.005					15.4		*
RO99312	25.8	1.4	4.8	0.017					0.1	†	*
RO99313	19.0	0.7	7.0	0.008					0.1	†	25.8
RO99315	1.5	0.0	1.8	0.002					15.0		40.4
RO99316	95.4	5.5	6.0	0.040	1				0.0	†	2.6
RO99317	5.5	0.1	0.4	0.005					4.7		*
RO99318	4.6	0.1	2.4	0.006					6.2		45.7
RO99319	16.1	0.6	2.0	0.012					0.4	†	35.8
RO99320	11.2	0.3	3.4	0.013	1				0.3	†	26.8
RO99321	63.9	2.8	0.8	0.024	1				0.6		5.6
RO99322	23.0	1.0	3.7	0.042					0.1	†	*
RO99323	10.9	0.3	3.1	0.012	1				0.5	†	44.0
RO99324	30.0	0.9	4.8	0.032					0.1	†	27.7
RO99325	8.4	0.1	2.7	0.007					0.7		35.2
RO99326	34.8	1.0	1.0	0.016					1.2		34.6
RO99327	6.6	0.3	2.1	0.008					3.1		NA
RO99328	22.8	0.9	0.5	0.011					1.0		33.5
RO99329	5.0	0.1	3.8	0.008					2.3		37.7
RO99330	11.4	0.2	3.4	0.008					0.3	†	25.0
Mean	22.3	0.9	2.7	0.013					2.6		28.5

† = Toxic: Microtox, EC₅₀ <0.5 if silt-clay < 20% , <0.2 if silt-clay > 20% (Ringwood et al., 1997, criterion #6); Seed Clam Assay, if mean clam growth

is < 80% of mean clam control growth AND significantly different from mean clam control growth

* Number of analytes that exceed Effects Range Low (ER-L) guidelines (Long et al., 1995).

 Values exceed threshold representing moderate risk of benthic impacts (Hyland et al., 1999).

SCECAP 1999 -- Tidal Creeks
Sediment characteristics, contaminants, and toxicity

Station	Characteristics			Contaminants				Toxicity			
	Percent Silt/Clay	TOC % of Total	TAN (mg/l)	ERMQ	Metals*	PAHs*	Pest*	PCBs*	Microtox® Assay		Seed Clam Assay
									EC ₅₀ Percent	Toxic	Mean Growth
RT99001	89.5	3.7	11.8	0.036	1				0.0	†	**
RT99002	4.6	0.1	0.9	0.006					2.1		43.9
RT99003	36.0	1.2	2.8	0.017					0.1	†	**
RT99004	10.5	0.3	0.2	0.007					0.5		39.8
RT99005	40.9	1.0	0.5	0.023					0.2	†	48.9
RT99006	8.3	0.2	3.1	0.007					4.5		38.5
RT99007	26.9	0.7	3.5	0.017					0.1	†	38.7
RT99008	30.7	1.0	5.5	0.014					0.1	†	**
RT99009	95.0	3.8	5.0	0.029	1				0.0	†	8.2 †
RT99010	31.2	1.2	11.3	0.019					0.4		21.1
RT99012	15.5	0.5	2.0	0.008					0.3	†	33.2
RT99013	94.8	2.5	1.3	0.033	1				0.2		**
RT99017	13.4	1.0	1.1	0.015					0.9		**
RT99019	2.9	0.1	1.5	0.004					3.7		44.1
RT99021	59.4	2.0	2.6	0.024	1				0.1	†	**
RT99022	34.6	1.3	2.9	0.014					0.7		45.1
RT99024	4.3	0.1	1.8	0.006					15.6		24.3
RT99026	12.2	0.4	3.4	0.008					0.2	†	**
RT99027	15.3	0.3	0.6	0.007					3.3		**
RT99028	33.7	1.1	2.1	0.013					0.1	†	37.2
RT99029	9.9	0.3	1.0	0.006					1.3		48.0
RT99030	26.1	0.6	2.0	0.014					0.1	†	33.9
RT99036	95.8	4.0	2.5	0.037	1				0.0	†	**
RT99037	5.5	0.4	1.9	0.005					2.1		49.3
RT99038	41.7	1.3	0.8	0.016					0.3		40.5
RT99039	9.3	0.2	1.2	0.006					2.4		39.0
RT99040	14.7	0.3	2.1	0.008					0.2	†	35.0
Mean	32.0	1.1	2.8	0.015					1.5		37.1

† = Toxic: Microtox EC50 <0.5 if silt-clay < 20% , <0.2 if silt-clay > 20% (Ringwood et al., 1997, criterion #6); Seed Clam Assay < 80% of mean sediment control growth and less than 95% Lower Confidence Limit (LCL)

Asterisk represents number of analytes that exceed Effects Range Low (ER-L) guidelines (Long et al., 1995).

** = No data due to low clam growth in controls

= Values exceed threshold representing moderate risk of benthic impacts (Hyland et al., 1999).

SCECAP 2000 -- Open Water

Sediment characteristics, contaminants, and toxicity

Station	Characteristics			Contaminants				Microtox® Assay				Amphipod Assay		Seed Clam Assay	
	Percent Silt/Clay	TOC % of Total	TAN (mg/l)	ERMQ	Metals*	PAHs*	Pest*	PCBs*	EC ₅₀ Percent	Toxic	Survival	Percent Toxic	Growth	Toxic	
					Metals*	PAHs*	Pest*	PCBs*							
RO00006	10.2	0.6	12.3	0.003					0.1	†	96		32.3	†	
RO00007	0.7	0.2	0.0	0.001					15.7		83		18.9		
RO00008	9.7	0.2	1.9	0.004					0.2	†	92		30.1		
RO00009	26.0	0.8	3.4	0.013					0.1	†	96		28.0		
RO00010	6.5	0.1	2.1	0.006					2.7		93		25.6		
RO00015	29.8	2.2	1.9	0.017					0.0	†	89		2.4	†	
RO00016	24.5	1.1	1.9	0.008					0.7		87		35.9		
RO00017	4.4	0.1	0.5	0.002					8.1		89		25.9		
RO00018	4.8	0.1	0.0	0.001					0.9		85		29.8		
RO00019	26.7	0.7	2.0	0.033	1				0.5		91		41.2	†	
RO00020	20.6	0.9	3.0	0.009					0.0	†	98		10.5	†	
RO00021	16.5	0.7	1.6	0.005					0.2	†	88		35.1	†	
RO00022	2.2	0.6	7.3	0.007					0.1	†	97		39.6		
RO00023	16.3	0.8	1.7	0.014		1			0.9		85		28.7		
RO00024	10.4	0.2	1.7	0.001					1.5		86		29.5		
RO00033	12.1	0.4	1.4	0.008					0.9		93		28.6		
RO00034	37.4	1.8	4.1	0.021		1			0.0	†	97		-22.0	†	
RO00035	11.3	0.6	1.9	0.013					0.8		91		40.4		
RO00036	5.5	0.3	1.5	0.017		1			4.5		82		20.0		
RO00037	1.3	0.1	0.3	0.004					11.2		92		40.7		
RO00045	6.0	0.1	0.8	0.003					0.9		91		26.6		
RO00046	2.8	0.1	1.0	0.001					13.2		91		42.2		
RO00047	27.4	0.8	3.1	0.010					1.0		90		19.1		
RO00048	13.2	0.4	3.0	0.009					0.5	†	89		33.5		
RO00049	3.2	0.1	1.9	0.002					15.2		95		27.7		
RO00055	1.8	0.1	2.3	0.001					15.4		89		49.4		
RO00056	98.5	4.3	19.3	0.163	3	8			0.0	†	87		15.3	†	
RO00057	7.5	0.2	1.2	0.005					0.3	†	90		51.4		
RO00058	5.3	0.2	1.6	0.008					3.7		92		27.6		
RO00059	11.9	0.3	2.6	0.005					0.5	†	93		36.3	†	
Mean	15.1	0.6	2.9	0.013					3.3		90.57		28.3		

† = Toxic: Microtox, EC50 <0.5 if silt-clay < 20% , <0.2 if silt-clay > 20% (Ringwood et al., 1997, criterion #6); Seed Clam Assay, if mean clam growth is < 80% of mean clam control growth AND significantly different from mean clam control growth

 Values exceed threshold representing moderate risk of benthic impacts (Hyland et al., 1999).

 Values exceed threshold representing high risk of benthic impacts (Hyland et al., 1999).

* Number of analytes that exceed Effects Range Low (ER-L) guidelines (Long et al., 1995).

SCECAP 2000 -- Tidal Creeks
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Station	Characteristics			Contaminants					Toxicity					
	Percent Silt/Clay	TOC % of Total	TAN (mg/l)	ERMQ	Metals*	PAHs*	Pest*	PCBs*	Microtox® Assay EC ₅₀		Amphipod Assay Percent		Seed Clam Assay Mean	
					Metals*	PAHs*	Pest*	PCBs*	Percent	Toxic	Survival	Toxic	Growth	Toxic
RT00501	10.3	0.4	0.8	0.009					0.5	†	96		54.0	
RT00502	2.0	0.1	0.4	0.002					15.6		83		25.6	†
RT00503	17.8	0.9	3.3	0.014	1				0.3	†	88		28.1	
RT00504	14.7	0.4	1.6	0.005					0.2	†	87		31.7	
RT00505	32.9	1.5	2.7	0.015	1				0.1	†	88		28.5	
RT00517	3.1	0.1	1.2	0.005					16.8		91		33.9	
RT00518	78.7	5.4	1.6	0.028	1				0.6		92		38.7	
RT00519	34.4	1.5	4.4	0.013					0.0	†	91		30.3	
RT00520	15.1	0.4	1.6	0.011					0.2	†	91		30.0	
RT00521	87.9	3.7	6.3	0.035	1				0.0	†	92		27.2	
RT00523	70.5	2.4	2.0	0.020	1				0.4		94		36.5	
RT00525	10.2	0.5	0.9	0.009					0.3	†	91		34.5	
RT00526	63.8	4.0	8.7	0.049	1	1			0.1	†	89		-12.7	†
RT00528	50.9	2.4	7.4	0.017					0.3		91		22.0	
RT00530	25.6	1.0	4.5	0.013					0.1	†	97		27.0	
RT00531	6.0	0.2	1.2	0.004					0.9		87		25.0	
RT00541	45.7	1.2	0.8	0.017	1				0.8		94		50.0	
RT00542	8.8	0.2	1.0	0.006					0.8		87		28.0	
RT00543	19.3	0.6	2.3	0.005					0.1	†	90		35.4	
RT00544	5.6	0.1	1.7	0.003					7.0		90		18.3	
RT00545	1.5	0.0	0.1	0.000					16.1		90		55.4	
RT00546	6.8	0.3	0.9	0.004					1.2		88		51.5	
RT00547	27.6	1.0	1.8	0.012					0.8		94		30.9	
RT00548	70.5	2.0	0.9	0.027	1				0.3		82		22.8	
RT00549	74.3	3.3	2.1	0.055	1	1			0.0	†	93		-2.1	†
RT00550	12.8	0.4	3.3	0.003					0.1	†	94		29.1	†
RT00554	34.3	1.5	21.0	0.008					0.4		89		23.8	†
RT00556	17.5	0.7	2.5	0.006					0.1	†	90		52.6	
RT00557	32.9	1.1	3.3	0.009					0.7		90		27.7	
RT00558	72.9	2.7	1.5	0.031	1				0.0	†	88		24.3	
Mean	31.8	1.3	40.4	0.014					2.2		90.23		30.3	

† = Toxic: Microtox, EC₅₀ < 0.5 if silt-clay < 20% , < 0.2 if silt-clay > 20% (Ringwood et al., 1997, criterion #6); Seed Clam Assay, if mean clam growth is < 80% of mean clam control growth AND significantly different from mean clam control growth

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■ = Values exceed threshold representing moderate risk of benthic impacts (Hyland et al., 1999).